Executive Engineer,
Yelahanka Division,
Bruhat Bengaluru Mahanagara Palike

Quality Control Reports

(FOURTH and PART)

Name of the Package:

Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

AGENCY: Sri. H Srinivasa Reddy

Estimate Cost: 1000.00 Lakhs

Project Management Consultants:

SAPIENCE CONSULTANTS AND ENGINEERS, BANGALORE.

#B9-003, GANGA, Jnanabharathi Enclave, Valagerahalli, Mysore Road Bangalore 560056

Ph: 080-29523634; E-Mail: SAPIENCEBANGALORE@GMAIL.COM

sapience
Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Test Report on Cement

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/56 Dt. 29/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Material	Cement (Birla Super 53 grade OPC)
Test Method	IS: 269:2015
Sampel Supplied By	PMC Agency
Date of Manufacture	May-22
Date of Testing	11.05.2022 - 12.05.2022

Sl. No.	Description	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part -5)	131 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5):1988(RA 2014)	339 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27 %	-

Note:

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For Sapience Consultants and Engineers,

SAPIENCE CONSULTANTS ENGINEERS Bangalore-59

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Test Report on Aggregates

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/56 Dt. 29/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Material	20mm Aggregates
Test Method	IS 383-1970 (RA- 2002)
Sampel Supplied By	PMC Agency
Date of Testing	13.05.2022

Total weight of Aggregates in gms: 5000

Is Sieve Size in mm	Weight Retained on Sieve (gm)	Percentage of Weight Retained (%)	Percentage of Weight Passing (%)	Cumulative Percentage Passing (%)	Spec.Limits
40	0	0	0	100	100
20	202.5	4.05	4.05	95.95	95-100
10	2823.3	56.466	60.516	39.48	25-55
4.75	1692.7	33.854	94.37	5.63	0-10

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Test Report on Aggregates

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/56 Dt. 29/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Material	40mm Aggregates
Test Method	IS 383-1970 (RA- 2002)
Sampel Supplied By	PMC Agency
Date of Testing	13.05.2022

Total weight of Aggregates in gms: 5000

Is Sieve Size in mm	Weight Retained on Sieve (gm)	Percentage of Weight Retained (%)	Percentage of Weight Passing (%)	Cumulative Percentage Passing (%)	Spec Limits
80.00	0	0	0	100	100.00
40.00	232.4	4.65	4.65	95.35	95-100
20.00	2128	42.56	47.21	52.79	30-70
10.00	1692.2	33.84	81.05	18.95	10-35
4.75	813.8	16.28	97.33	2.67	0-5

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Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/56 Dt. 29/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269 2015
Grade of Concrete	M - 20
Compressive Strength	7^{th} Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	23-May-22	30-May-22	8.128	323.33	14.37
2	23-May-22	30-May-22	8.156	318.83	14.17
3	23-May-22	30-May-22	8.142	326.03	14.49

For Sapience Consultants and Engineers,

Authorized Signature

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Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
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Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/56 Dt. 29/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	25-May-22	22-Jun-22	8.136	491.40	21.84
2	25-May-22	22-Jun-22	8.145	497.48	22.11
3	25-May-22	22-Jun-22	8.159	490.05	21.78

For Sapience Consultants and Engineers,

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Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	7^{th} Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	2-Jun-22	9-Jun-22	8.152	324.00	14.40
2	2-Jun-22	9-Jun-22	8.150	316.80	14.08
3	2-Jun-22	9-Jun-22	8.124	319.50	14.20

For Sapience Consultants and Engineers,

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Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	7^{th} Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	8-Jun-22	15-Jun-22	8.151	320.63	14.25
2	8-Jun-22	15-Jun-22	8.156	326.48	14.51
3	8-Jun-22	15-Jun-22	8.159	328.28	14.59

For Sapience Consultants and Engineers,

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Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	7th Day

Sl. No	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	10-Jun-22	17-Jun-22	8.126	324.23	14.41
2	10-Jun-22	17-Jun-22	8.130	329.63	14.65
3	10-Jun-22	17-Jun-22	8.142	325.80	14.48

For Sapience Consultants and Engineers,

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Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	15-Jun-22	13-Jul-22	8.134	500.85	22.26
2	15-Jun-22	13-Jul-22	8.156	492.08	21.87
3	15-Jun-22	13-Jul-22	8.154	493.88	21.95

For Sapience Consultants and Engineers,

Authorized Signature

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೫೬

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Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	7th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	17-Jun-22	24-Jun-22	8.128	328.73	14.61
2	17-Jun-22	24-Jun-22	8.132	321.53	14.29
3	17-Jun-22	24-Jun-22	8.125	321.53	14.29

For Sapience Consultants and Engineers,

Authorized Signature

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Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 20
Compressive Strength	28th Day

Sl. No	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	20-Jun-22	18-Jul-22	8.154	491.40	21.84
2	20-Jun-22	18-Jul-22	8.146	494.55	21.98
3	20-Jun-22	18-Jul-22	8.145	494.55	21.98

For Sapience Consultants and Engineers,

Authorized Signature

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Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
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Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/56 Dt. 29/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	20-Jul-22	17-Aug-22	8.129	779.40	34.64
2	20-Jul-22	17-Aug-22	8.176	781.20	34.72
3	20-Jul-22	17-Aug-22	8.145	765.90	34.04

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Test Report on Compressive Strength of Concrete Cubes

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Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/56 Dt. 29/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	22-Jul-22	19-Aug-22	8.166	785.93	34.93
2	22-Jul-22	19-Aug-22	8.176	780.08	34.67
3	22-Jul-22	19-Aug-22	8.159	773.78	34.39

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Contractor / Agency	Sri. H Sreenivasa Reddy
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	7^{th} Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	23-Jul-22	30-Jul-22	8.159	512.33	22.77
2	23-Jul-22	30-Jul-22	8.168	499.05	22.18
3	23-Jul-22	30-Jul-22	8.146	499.28	22.19

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Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm^2
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	28th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	26-Jul-22	23-Aug-22	8.162	773.10	34.36
2	26-Jul-22	23-Aug-22	8.160	768.38	34.15
3	26-Jul-22	23-Aug-22	8.144	784.58	34.87

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For Sapience Consultants and Engineers,

Authorized Signature

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರಗಳು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

sapience
Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/56 Dt. 29/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
type of Samples	100mm Pre-Cast Slab Cores (50mm dia)
Test Method	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Core	**M - 20**
Date of Testing	20.05.2022

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50	80.00	0.375	2387.32	1.60	0.957	32.06	16.33	17.63	16.87	21.09
2	50	85.00	0.370	2216.93	1.70	0.968	32.50	16.55	17.88	17.30	21.62
3	50	80.00	0.373	2374.59	1.60	0.957	32.50	16.55	17.88	17.10	21.38

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50	80.00	0.369	2349.13	1.60	0.957	32.65	16.63	17.96	17.18	21.48
2	50	85.00	0.376	2252.89	1.70	0.968	32.34	16.47	17.79	17.21	21.51
3	50	80.00	0.372	2368.23	1.60	0.957	32.51	16.56	17.88	17.11	21.39

For Sapience Consultants and Engineers,

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Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/56 Dt. 29/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
type of Samples	230mm Pre-Cast Slab Cores (50mm dia)
Test Method	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Core	**M - 20**
Date of Testing	30.06.2022

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50	80.00	0.376	2393.69	1.60	0.957	32.43	16.52	17.84	17.07	21.33
2	50	85.00	0.364	2180.98	1.70	0.968	32.86	16.74	18.07	17.49	21.86
3	50	80.00	0.374	2380.96	1.60	0.957	32.65	16.63	17.96	17.18	21.48

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50	80.00	0.365	2323.66	1.60	0.957	32.14	16.37	17.68	16.91	21.14
2	50	85.00	0.374	2240.90	1.70	0.968	32.13	16.36	17.67	17.10	21.38
3	50	80.00	0.369	2349.13	1.60	0.957	32.13	16.36	17.67	16.91	21.14

For Sapience Consultants and Engineers,

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GRADATION FOR GSB (Grading V)

Project Name	Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)
Client	Executive Engineer, Yelahanka Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/YHK/2022-23/56 Dt. 29/07/2022
Contractor / Agency	Sri. H Sreenivasa Reddy
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	1 & 2
Date	08.07.2022 , 11.07.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2132.1	2132.1	10.66	89.34	80 - 100	
26.5	2623.2	4755.3	23.78	76.22	55 - 90	
9.5	4829.2	9584.5	47.92	52.08	35 - 65	
4.75	2922.0	12506.5	62.53	37.47	25 - 50	
2.36	5032.5	17539.0	87.70	12.3	10 - 20	
0.850	1193.1	18732.1	93.66	6.34	2 - 10	
0.425	1230.3	19962.4	99.81	0.19	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1600.4	1600.4	8.00	92.00	80 - 100	
26.5	4123.9	5724.3	28.62	71.38	55 - 90	
9.5	3982.7	9707.0	48.54	51.46	35 - 65	
4.75	2307.5	12014.5	60.07	39.93	25 - 50	
2.36	5537.1	17551.6	87.76	12.24	10 - 20	
0.850	1473.4	19025.0	95.13	4.87	2 - 10	
0.425	826.0	19851.0	99.26	0.74	0 - 5	

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory

→ The results indicated above are based on the tests carried out on the Samples are collected on the work spot & tested in the laboratory.

→ Any Query regarding the report must be reported within 15 days from the date of testing.

For Sapience Consultants and Engineers,

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